

जांच, कर्ण, जोबसन हॉर्ने
के पैटर्न — विशिष्टि

(पहला पुनरीक्षण)

**Probe, Aural, Jobson Horne's
Pattern — Specification**

(*First Revision*)

ICS 11.040.30

© BIS 2021



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली – 110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002
www.bis.gov.in www.standardsbis.in

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Ear, Nose and Throat Surgery Instruments Sectional Committee and approval of the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1966. The first revision has been taken up to update it with development taken place in the field. All the amendments issued so far have been incorporated in this revision.

This Indian Standard is one of a series on surgical instruments. This standard has been prepared based on indigenous manufacturers' data/practices prevalent in the field in India.

The composition of the committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'.

Indian Standard

PROBE, AURAL, JOBSON HORNE'S PATTERN — SPECIFICATION

(First Revision)

1 SCOPE

This standard covers the requirements of Aural Probe, Jobson Home's Pattern used in ENT work.

2 REFERENCES

The Indian Standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

IS No.	Title	IS No.	Title
1501 (Part 1) : 2013	Metallic materials — Vickers hardness test: Part 1 Test method (<i>fourth revision</i>)	7531 : 1990	Surgical instruments — Corrosion resistance of stainless steel surgical instruments — Methods of tests (<i>first revision</i>)
1570 (Part 5) : 1985	Schedules for wrought steels: Part 5 Stainless and heat-resisting steels (<i>second revision</i>)		
3642 (Part 1) : 1990	Surgical instruments — Specification: Part 1 Non-cutting, articulated instruments (<i>second revision</i>)		

3 MATERIAL

The probe shall be made from stainless steel conforming to designation 30Cr13 of IS 1570 (Part 5).

4 SHAPE AND DIMENSIONS

4.1 The shape and dimensions shall conform to Fig. 1. Shape shall be hexagonal at centre rather than round.

4.2 Tolerances on dimensions where not specified shall conform to IS 3642 (Part 1).

5 MANUFACTURE, WORKMANSHIP AND FINISH

The probe shall be forged in one piece to give the required shape. The loop of the probe shall be round and free from sharp edges. The other end shall be made flat and with serrations and shall be capable of holding cotton wool. The instrument shall be well balanced on its centre line. It shall be passivated and polished bright, free from pits, spots, burrs and other surface defects.

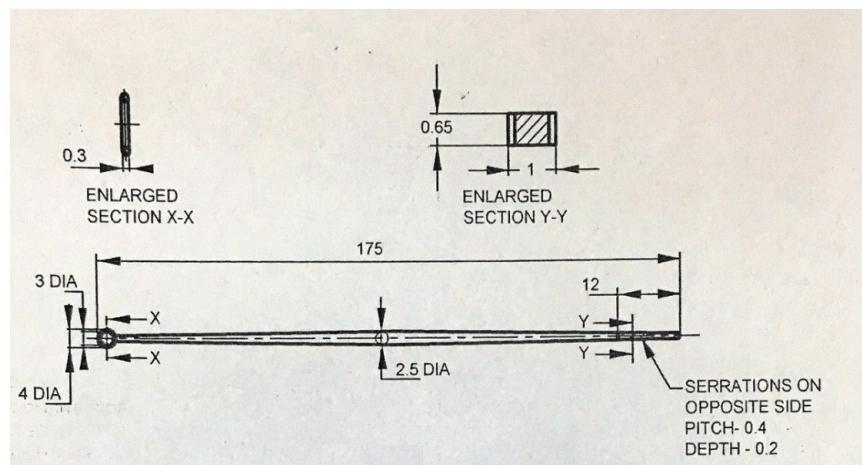


FIG. 1 PROBE, AURAL, JOBSON HORNE'S PATTERN

6 HEAT TREATMENT

The probe shall be hardened and tempered to a Vickers hardness of 430 to 490 HV of the finished instrument when tested in accordance with IS 1501 (Part 1).

7 TESTS

7.1 Flexibility Test

The probe shall be fixed in the vice so that 75 mm of length protrudes outside the vice. By the application of a force at the free end, the probe shall be deflected by 10 mm as measured at the end in the horizontal plane. On completion of the test the probe shall show no permanent set or damage. The whole test shall be repeated at the other end.

7.2 The probe shall be clamped in the vice in such a manner that the long axis of the probe is vertical and the loop is downward. A load of 200 g shall be suspended through a chord in the loop. The loop shall not show any sign of damage or permanent set after the completion of the test.

7.3 Corrosion Resistance

The instrument shall satisfy the boiling and autoclaving test as specified in IS 7531.

8 MARKING

8.1 Each probe shall be legibly and indelibly marked with the manufacturer's name, initials or trade-mark and country of manufacture.

8.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

9 PACKING

Each probe shall be wrapped in wax paper and six such pieces shall be packed in polyethylene bag or cardboard box.

ANNEX A(*Foreword*)**COMMITTEE COMPOSITION**

Ear, Nose and Throat Surgery Instruments Sectional Committee, MHD 04

<i>Organization</i>	<i>Representative(s)</i>
All India Institute of Medical Sciences, New Delhi (Others)	DR RAKESH KUMAR (Chairman)
Ali Yavar Jung National Institute for The Hearing Handicapped, Mumbai (Others)	DR RAJEEV RAMKRISHNA JALVI SHRIMATI ALKA SAPRU JOSHI (<i>Alternate</i>)
Aligarh Muslim University, Aligarh	PROF SYED ABRAR HASAN
All India Institute of Medical Science, Jodhpur	DR AMIT GOYAL DR BIKRAM CHOUDHURY (<i>Alternate</i>)
All India Institute of Speech and Hearing, Mysuru (Government)	DR S. R. SAVITHRI DR T. K. PRAKASH (<i>Alternate</i>)
Bombay Hospital & Medical Research Centre, Mumbai (Others)	DR D. P. VYAS DR RAJESH CHOUMAL (<i>Alternate</i>)
C S M Medical University, Lucknow (Others)	DR S. P. AGARWAL DR H. P. SINGH (<i>Alternate</i>)
Central Drugs Standard Control Organisation, New Delhi (Government)	DR S. ESWARA REDDY MR K. K. BHARADWAJ (<i>Alternate</i>)
Central Scientific Instruments Organization, Chandigarh (Government)	DR H. K. SARDANA
Christian Medical College, Vellore	DR SUMA SUSAN MATHEWS DR NAINA PICARDO (<i>Alternate</i>)
CSIR-Central Scientific Instruments Organisation, New Delhi	DHIRENDRA BAWSAL SANJEEV KUMAR (<i>Alternate</i>)
Directorate General of Armed Forces Medical Services, New Delhi (Government)	COL A. K. MISHRA BRIG AJAY MALIK (<i>Alternate</i>)
Down Town Hospital Ltd, Guwahati (Others)	DR NARENDRA NATH DUTTA DR KISHALAY BARUA (<i>Alternate</i>)
Dr Ram Manohar Lohia Hospital, New Delhi (Others)	DR KANWAR SEN DR NISHI SHARMA (<i>Alternate</i>)
Eagle Medical System Pvt Ltd, New Delhi (Manufacturer)	SHRI RAMESH BHASIN
Government Medical College, Thiruvananthapuram	DR SHIBU GEORGE DR HERMAN GUILD M. JOHN (<i>Alternate</i>)
Govt R M Hospital (Govt of Tamil Nadu), Thanjavuri (Others)	DR K. BALASUBRAMANIAN DR T. RAMANATHAN (<i>Alternate</i>)
India Medtronic Pvt Ltd, Gurugram	MS LATIKA VATS SHRI SANJEEV MINHAS (<i>Alternate</i>)
Indian Audio Centre, Chandigarh (Manufacturer)	SHRI SANDEEP KAMBOJ KASHMIR S. RANA (<i>Alternate</i>)

<i>Organization</i>	<i>Representative(s)</i>
J N Medical College Aligarh Muslim University, Aligarh	SHRI S. C. SHARMA SHRI AFTAB AHMED (<i>Alternate</i>)
Jaggi Medical Instruments Co Pvt Ltd, Allahabad (Manufacturer)	SHRI TARUN JAGGI
Kalam Institute of Health Technology	DR JITENDAR SHARMA MR P. SRINIVASA REDDY (<i>Alternate</i>)
Maulana Azad Medical College, New Delhi (Others)	PROF P. K. RATHORE DR ISHWAR SINGH (<i>Alternate</i>)
MGM Medical College & Associated M Y Group of Hospitals, Indore (Others)	DR (PROF) Y. K. MARU
Ministry of Railways (Railway Board), New Delhi (Government)	DR DIVYA AGGARWAL DR SHRUTI DOGRA (<i>Alternate</i>)
Office of Development Commissioner, (MSME), New Delhi (Government)	SHRI SANJEEV CHAWLA SHRI KANWALINDER SINGH SODHI (<i>Alternate</i>)
Pandit Bhagwat Dyal Sharma Post Graduate Institute of Medical Science, Rohtak (Others)	DR VIKAS KAKKAR
Postgraduate Institute of Medical Education & Research, Chandigarh (Others)	PROF ASHOK KUMAR GUPTA DR JAIMANTI BAKSHI (<i>Alternate</i>)
SMS Medical College & Controller of Attached Hospitals, Jaipur (Manufacturer)	DR SUNITA AGARWAL DR PAWAN SINGHAL (<i>Alternate</i>)
Speedway Surgical Co, Delhi (Manufacturer)	SHRI VIPIN K. PAHWA SHRI JATIN PAHWA (<i>Alternate</i>)
BIS Directorate General	SHRI PRAKASH BACHANI, SCIENTIST 'F' AND HEAD (MHD) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary

Ms GURPREET KAUR BHOMBRA
SCIENTIST 'B' (MHD), BIS

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act*, 2016 to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards: Monthly Additions'.

This Indian Standard has been developed from Doc No.: MHD 04 (0400).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones: 2323 0131, 2323 3375, 2323 9402

Website: www.bis.gov.in

Regional Offices:

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	<i>Telephones</i>
	{ 2323 7617 2323 3841

Eastern : 1/14 C.I.T. Scheme VII M, V.I.P. Road, Kankurgachi KOLKATA 700054	<i>Telephones</i>
	{ 2337 8499, 2337 8561 2337 8626, 2337 9120

Northern : Plot No. 4-A, Sector 27-B, Madhya Marg CHANDIGARH 160019	<i>Telephones</i>
	{ 265 0206 265 0290

Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113	<i>Telephones</i>
	{ 2254 1216, 2254 1442 2254 2519, 2254 2315

Western : Manakalaya, E9 MIDC, Marol, Andheri (East) MUMBAI 400093	<i>Telephones</i>
	{ 2832 9295, 2832 7858 2832 7891, 2832 7892

Branches : AHMEDABAD. BENGALURU. BHOPAL. BHUBANESHWAR. COIMBATORE. DEHRADUN. DURGAPUR. FARIDABAD. GHAZIABAD. GUWAHATI. HYDERABAD. JAIPUR. JAMMU. JAMSHEDPUR. KOCHI. LUCKNOW. NAGPUR. PARWANOO. PATNA. PUNE. RAIPUR. RAJKOT. VISAKHAPATNAM.	<i>Telephones</i>
--	-------------------